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United States
Department of
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Agricultural
Marketing
Service

Volume 17, No. 2
April -- June
1989

Plant Variety Protection Office Official Journal



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PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal, published quarterly, is available from:

Plant Variety Protection Office
Agricultural Marketing Service
U. S. Department of Agriculture
Rm. 500, NAL Bldg.
10301 Baltimore Blvd.
Beltsville, Maryland 20705

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. The seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

APPL. NO.	VARIETY	GEN. APPL. (*)	DATE	NAME OF APPLICANT
ALFALFA 8900181	5683	04/18/89		Pioneer Hi-Bred International, Inc.
8900229	Magnum III	(2) 05/31/89		Dairyland Seed Company, Inc.
BARLEY 8900139	Chopper	(2) 04/03/89		Wisconsin Agricultural Experiment Station
8900140	Bounty	(2) 04/03/89		Wymore Farms
BEAN, FIELD 8900186	Mayflower	04/19/89		Michigan State University, Agricultural Experiment Station

(*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
BEAN, FIELD (Continued)			
8900187	<D81126>	04/19/89	Rogers Brothers Seed Company
8900188	<D81127B>	04/19/89	Rogers Brothers Seed Company
8900189	<D82166>	04/19/89	Rogers Brothers Seed Company
8900190	<D83043>	04/19/89	Rogers Brothers Seed Company
8900191	<D83045>	04/19/89	Rogers Brothers Seed Company
8900192	<D83353>	04/19/89	Rogers Brothers Seed Company
8900193	<D83360>	04/19/89	Rogers Brothers Seed Company
8900200	Anasazi	(2) 05/03/89	Adobe Milling Co., Inc.
8900217	<XP-B212>	05/12/89	Asgrow Seed Company

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
BEAN, FIELD (Continued)			
8900253	UI 686	(3) 06/19/89	University of Idaho
8900254	UI 722	(3) 06/19/89	University of Idaho
8900255	UI 906	(3) 06/19/89	University of Idaho
BEAN, GARDEN			
8900151	Acclaim	04/11/89	Asgrow Seed Company
8900152	Tena	04/11/89	Asgrow Seed Company
8900153	Magnum	04/11/89	Asgrow Seed Company
8900163	Brio	04/13/89	Asgrow Seed Company
8900164	Legion	04/13/89	Asgrow Seed Company
8900165	Mustang	04/13/89	Asgrow Seed Company

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
BEAN, GARDEN (Continued)			
8900184	Label	04/19/89	Vilmorin, S.A.
8900185	Vilbel	04/19/89	Vilmorin, S.A.
8900199	Crest	05/01/89	Asgrow Seed Company
8900245	Irina	06/09/89	van Waveren-Pflanzenzucht GmbH
8900246	Omega	06/09/89	van Waveren-Pflanzenzucht GmbH
8900247	<WAV 610>	06/09/89	van Waveren-Pflanzenzucht GmbH
8900248	Castel	06/16/89	Vilmorin S.A.
BENTGRASS, COLONIAL			
8900219	Grasslands Egmont	(1) 05/03/89	Grasslands Division Dept. of Scientific & Industrial Research

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
BLUEGRASS, KENTUCKY 8900196	Ampellia	(3) 04/19/89	Cebeco-Handelsraad
8900250	Minstrel	06/16/89	D.J. van der Have B.V.
8900251	Cocktail	06/16/89	D.J. van der Have B.V.
CAULIFLOWER 8900166	Snowtop	04/13/89	North American Seed Co., Inc.
8900171	White Diamond	04/18/89	Sunseeds Genetics, Inc.
8900216	Minaret	05/08/89	TS Seeds B.V. and Meo Voto Beheer B.V.
CORN, FIELD 8900156	WIL500	04/13/89	Wilson Hybrids, Inc.
8900201	<L 127>	05/08/89	Lifaco Seed Corporation

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
CORN, FIELD (Continued)			
8900202	<L 135>	05/08/89	Lifaco Seed Corporation
8900203	<L 139>	05/08/89	Lifaco Seed Corporation
8900226	J8606	05/26/89	Northrup King Co.
8900227	W8555	05/26/89	Northrup King Co.
8900233	E8501	06/05/89	Northrup King Co.
8900234	792	06/05/89	Northrup King Co.
8900260	J17	06/29/89	Agrigenetics Company, Division of The Lubrizol Corporation

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
COTTON			
8900169	Coyote	04/14/89	Sally Vreseis Fox
8900170	Green	04/14/89	Sally Vreseis Fox
8900207	Suregrow 35	05/11/89	Seed Source, Inc.
8900208	Suregrow 55	05/11/89	Seed Source, Inc.
8900252	Coker 130	06/19/89	Northrup King Co.
ENDIVE			
8900249	Scala	06/16/89	Vilmorin S.A.
FESCUE, RED			
8900197	Capitol	(3) 04/19/89	Cebeco-Handelsraad
8900198	Claudia	(3) 04/19/89	Cebeco-Handelsraad

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. The seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

APPL. NO.	VARIETY	GEN. APPL. (*)	NAME OF APPLICANT
FESCUE, RED (Continued)			
8900241	Shademaster	06/08/89	Pure-Seed Testing, Inc.
FESCUE, TALL			
8900167	Thoroughbred	04/14/89	Pickseed West Inc.
8900220	Courtenay	05/22/89	Daehnfeldt Inc.
8900242	Jaguar II	06/08/89	Pure-Seed Testing, Inc.
8900243	Winchester	06/08/89	Pure-Seed Testing, Inc.
8900259	Carefree	06/22/89	International Seeds Inc.
LETTUCE			
8900182	Sangria	04/19/89	Vilmorin, S.A.
8900183	Sudia	04/19/89	Vilmorin, S.A.

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APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
8900228	LETTUCE (Continued) Yuppie	05/30/89	Genecorp, Inc.
8900257	Bud 71-3	06/19/89	Bud Antle, Inc.
8900145	PEA Renata	(3) 04/04/89	Cebeco-Handelsraad
8900157	Aim	04/13/89	Asgrow Seed Company
8900158	Karisma	04/13/89	Asgrow Seed Company
8900159	Micro	04/13/89	Asgrow Seed Company
8900160	Quantum	04/13/89	Asgrow Seed Company
8900161	Shield	04/13/89	Asgrow Seed Company
8900162	Turbo	04/13/89	Asgrow Seed Company

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
PEA (Continued)			
8900222	Ava	05/25/89	Canners Seed Corporation
8900223	Boomer	05/25/89	Canners Seed Corporation
8900224	Booster	05/25/89	Canners Seed Corporation
8900225	Prairie	05/25/89	Canners Seed Corporation
8900230	Applause	06/01/89	Canners Seed Corporation
8900261	Dewdrop	06/30/89	Rogers Brothers Seed Company
8900262	Northstar	06/30/89	Rogers Brothers Seed Company
RYEGRASS, PERENNIAL			
8900141	Sherwood	04/03/89	Jonathan Green Inc./Cascade International Seed Co.

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*)	DATE	NAME OF APPLICANT
	RYEGRASS, PERENNIAL (Continued)			
8900142	<2H7>	04/03/89		Pure-Seed Testing, Inc.
8900143	Charger	04/03/89		Pure-Seed Testing, Inc.
8900195	Cutless	04/25/89		International Seeds Inc.
	SAFFLOWER			
8900221	S-518	(3) 05/22/89		SeedTec International, Inc.
	SORGHUM			
8900235	PHA86	06/06/89		Pioneer Hi-Bred International, Inc.
8900236	PHB86	06/06/89		Pioneer Hi-Bred International, Inc.
8900237	PHA82	06/06/89		Pioneer Hi-Bred International, Inc.
8900238	PHB82	06/06/89		Pioneer Hi-Bred International, Inc.

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APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
	SORGHUM (Continued)		
8900239	PH328	06/06/89	Pioneer Hi-Bred International, Inc.
8900240	PH333	06/06/89	Pioneer Hi-Bred International, Inc.
8900256	HP150	06/19/89	Holden's Foundation Seeds, Inc.
8900258	RI59	06/19/89	Northrup King Co.
	SOYBEAN		
8900144	K87	04/04/89	King Grain Inc.
8900146	HS 266	04/11/89	GROWMARK Inc.
8900147	HS 358	04/11/89	GROWMARK Inc.
8900148	HS 2455	04/11/89	GROWMARK Inc.
8900149	HS 2821	04/11/89	GROWMARK Inc.

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
SOYBEAN 8900150	(Continued) HS 4011	04/11/89	GROWMARK Inc.
8900154	Hartz 6200	04/12/89	Jacob Hartz Seed Company, Inc.
8900155	Hartz 6686	04/12/89	Jacob Hartz Seed Company, Inc.
8900172	9121	04/17/89	Pioneer Hi-Bred International, Inc.
8900173	9302	04/17/89	Pioneer Hi-Bred International, Inc.
8900174	9303	04/17/89	Pioneer Hi-Bred International, Inc.
8900175	9341	04/17/89	Pioneer Hi-Bred International, Inc.
8900176	9411	04/17/89	Pioneer Hi-Bred International, Inc.
8900177	9461	04/17/89	Pioneer Hi-Bred International, Inc.

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
SOYBEAN (Continued)			
8900178	9582	04/17/89	Pioneer Hi-Bred International, Inc.
8900179	9592	04/17/89	Pioneer Hi-Bred International, Inc.
8900180	9711	04/17/89	Pioneer Hi-Bred International, Inc.
8900194	Burlison	04/24/89	Illinois Agricultural Experiment Station
8900209	S07-80	05/15/89	Northrup King Co.
8900210	S17-18	05/15/89	Northrup King Co.
8900211	S19-90	05/15/89	Northrup King Co.
8900212	S20-26	05/15/89	Northrup King Co.
8900213	S30-41	05/15/89	Northrup King Co.

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
SOYBEAN (Continued)			
8900214	S31-33	05/15/89	Northrup King Co.
8900215	S42-50	05/15/89	Northrup King Co.
8900218	A1929	05/11/89	Asgrow Seed Company
8900244	A3322	06/08/89	Asgrow Seed Company
8900264	Hartz 6372	06/26/89	Jacob Hartz Seed Company, Inc.
SUNFLOWER			
8900168	Sunspot	04/13/89	Dr. Ir. E. Sahin, c/o K. Sahin, Zaden BV
TOMATO			
8900204	Enduro	05/10/89	Ferry-Morse Seed Company

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APPLICATIONS RECEIVED
APRIL 1, 1989 TO JUNE 30, 1989

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
WHEAT, COMMON			
8900205	2163	05/09/89	Pioneer Hi-Bred International, Inc.
8900206	<XW171>	05/09/89	Pioneer Hi-Bred International, Inc.
8900231	INW8841	06/01/89	Purdue University Agricultural Experiment Station
8900232	INW8852	06/01/89	Purdue University Agricultural Experiment Station

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APPLICATIONS AMENDED

APRIL 1, 1989 TO JUNE 30, 1989

Information concerning the varieties below has been published previously in the Official Journal's list of "APPLICATIONS RECEIVED." During the examination process, the applicant requested this information amended as indicated below.

APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
8400135	833		07/02/84	Arkansas County Seed Co., Inc.

OAT

Name of owner changed from Harpool Seed Inc. to Arkansas County Seed Co., Inc.

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APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE
APRIL 1, 1989 TO JUNE 30, 1989

Applications for the varieties listed below are no longer being considered for U.S. plant variety protection. Although propagation of these varieties is no longer prohibited by the U.S. Plant Variety Protection Act, varieties published in this list may possibly be protected under the Patent Act.

KIND	APPL. NO.	C66	VARIETY
SOYBEAN	8800066		DSR-135
WHEAT, COMMON	8800054		Pacer

< > Identifies temporary designations.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (include area code)	FOR OFFICIAL USE ONLY PVPO NUMBER <hr/> F I L I N G Date <hr/> Time <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <hr/> F E E S Filing and Examination Fee \$ <hr/> Date <hr/> R E C E I V E D Certificate Fee \$ <hr/> Date
6. GENUS AND SPECIES NAME	7. FAMILY NAME (Botanical)		
8. CROP KIND NAME (Common Name)	9. DATE OF DETERMINATION		
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			

PHONE (include area code)

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

a. ☐ Exhibit A, Origin and Breeding History of the Variety

b. ☐ Exhibit B, Novelty Statement

c. ☐ Exhibit C, Objective Description of Variety

d. ☐ Exhibit D, Additional Description of Variety

e. ☐ Exhibit E, Statement of the Basis of Applicant's Ownership

f. ☐ Seed Sample (2,500 viable untreated seeds) Date Seed Sample mailed to Plant Variety Protection Office _____

g. ☐ Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States"

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act)

☐ YES (If "YES" answer items 16 and 17 below) ☐ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ YES (If "YES," through ☐ Plant Variety Protection Act ☐ Patent Act Give date _____)

☐ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ YES (If "YES," give names of countries and dates)

☐ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT [Owner(s)]	CAPACITY OR TITLE	DATE
SIGNATURE OF APPLICANT [Owner(s)]	CAPACITY OR TITLE	DATE

- 14d. Optional additional characteristics and/or photographs: Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 14e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.
15. If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*), the applicant may **NOT** reverse this affirmative decision after the variety has either been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified the applicant may change the choice. (*See section 180.16 of the Regulations and Rules of Practice.*)
19. See sections 41 (i, j) and 42 of the Act and section 180.7 of the Regulations and Rules of Practice for eligibility requirements.

NOTES:

It is the responsibility of the applicant/owner to keep the PVPO informed of any change of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is \$25. [*See section 101 of the Act, and sections 180.130, 180.131, 180.132, and 180.175(h) of the Regulations and Rules of Practice.*]

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Rm. 213, Building 306, Beltsville Agricultural Research Center -- East, Beltsville, MD 20705. Telephone: 301/344-2089.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
BEAN, FIELD				
8800115	Bill Z	(3)	06/30/89	Colorado State University
	'Bill Z' is most similar to 'Olathe'; however, 'Bill Z' has darker dry seed coat color than 'Olathe'. 'Bill Z' is also more resistant than 'Olathe' to rust isolates from Saginaw, Michigan.			
BEAN, GARDEN				
8600052	Venture		04/28/89	Rogers Brothers Seed Company
	'Venture' is most similar to 'Provider' but differs primarily in seed coat color. 'Venture' has white seeds whereas 'Provider' has purple seeds.			
CORN, FIELD				
8800149	NS501		04/28/89	United AgriSeeds, Inc.
	'NS501' is most similar to 'A634'; however, 'NS501' has 7 more tassel branches per plant and has a strong 2-ear tendency whereas 'A634' has only one ear per plant.			
8800150	OQ603		04/28/89	United AgriSeeds, Inc.
	'OQ603' is most similar to 'A632'; however, 'OQ603' has 5 less lateral tassel branches per plant with a lesser branch angle than 'A632'.			

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
COWPEA				
8700185	CT Pinkeye Purplehull		04/28/89	C. T. Smith Company
	'CT Pinkeye Purplehull' is most similar to 'Pinkeye Purplehull BVR'; however, seeds of 'CT Pinkeye Purplehull' have a heavily wrinkled testa, whereas seeds of 'Pinkeye Purplehull BVR' have a smooth to rough testa.			
FESCUE, TALL				
8800123	Maximize		06/30/89	Pure-Seed Testing, Inc.
	'Maximize' most closely resembles 'Kentucky 31', 'Fawn', 'Kenhy', and 'Festorina'; however, 'Maximize' has 6.0 cm (4.1-9.6) shorter plant height and 11.0 cm (7.8-14.5) lower flag leaf than 'Kentucky 31'. 'Maximize' has a 6 day (2-10) later 50% heading date than 'Fawn', 8 day (2-12) earlier heading date than 'Kenhy', and 13 day (7-18) earlier heading date than 'Festorina'. 'Maximize' is resistant to crown rust whereas 'Fawn' is susceptible.			

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
FESCUE, TALL (Continued)				
8800132	Amigo		06/30/89	Pure-Seed Testing, Inc.
'Amigo' most closely resembles 'Apache', 'Bonanza', and 'Rebel'; however, 'Amigo' has a mean 50% heading date 4 days (3-5 days) earlier than 'Apache' and 7 days (4-10) earlier than 'Bonanza'. 'Amigo' has a mean flag leaf height 7.0 cm (4.5-20.6 cm) lower than 'Apache', 7.5 cm (4.9-11.3 cm) lower than 'Rebel', and 7.1 cm (3.9-10.3 cm) lower than 'Bonanza'. 'Amigo' has a mean internode length 2.9 cm (0.6-5.4 cm) shorter than 'Rebel' and 1.4 cm (0.2-2.7 cm) shorter than 'Bonanza'.				
8800135	Murietta		06/30/89	Pure-Seed Testing, Inc.
'Murietta' most closely resembles 'Olympic', 'Trailblazer', 'Jaguar', and 'Bonanza'; however, 'Murietta' mature plant height is shorter than 'Olympic' (28 cm), 'Trailblazer' (11 cm), 'Jaguar' (15 cm), and 'Bonanza' (20 cm). 'Murietta' also has a 50% heading date 10 days later than 'Olympic' and 'Trailblazer'.				
LETTUCE				
8800051	Green Bowl		04/28/89	Asgrow Seed Company
'Green Bowl' is most similar to 'Salad Bowl'; however, 'Green Bowl' is darker green in color (146B vs 144B, Royal Horticultural Society Colour Chart).				

(*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
LETTUCE (Continued)				
8900027	Primavera		04/28/89	Genecorp Technology
	'Primavera' is most similar to 'Early Giant'; however, 'Primavera' has brown seed whereas 'Early Giant' has black seed.			
8900029	Atlas		06/30/89	Genecorp, Inc.
	'Atlas' is most similar to 'Greengo'; however, 'Atlas' has black seed and 'Greengo' has white seed.			
SOYBEAN				
8800148	Sharkey	(3)	04/28/89	Mississippi Agricultural & Forestry Experiment Station
	'Sharkey' is most similar to 'Tracy-M'; however, 'Sharkey' matures 3 to 4 days later than 'Tracy-M'.			
8800187	CX458		04/28/89	DeKalb-Pfizer Genetics
	'CX458' most closely resembles 'A4595'; however, 'CX458' has brown pods whereas 'A4595' has tan pods.			

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
SOYBEAN (Continued)				
8800188	CX298		04/28/89	DeKalb-Pfizer Genetics
	'CX298' most closely resembles 'A2943'; however, 'CX298' has tawny pubescence and black hila whereas 'A2943' has gray pubescence and imperfect black hila.			
8900009	AP 1650		04/28/89	Nickerson American Plant Breeders, Inc.
	'AP 1650' is most similar to 'AP 1776'; however, 'AP 1650' has brown pods whereas 'AP 1776' has tan pods.			
8900010	AP 1989		04/28/89	Nickerson American Plant Breeders, Inc.
	'AP 1989' is most similar to 'Vickery'; however, 'AP 1989' is resistant to iron deficiency chlorosis whereas 'Vickery' is susceptible.			

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
SUNFLOWER				
8800180	687		06/30/89	Cargill, Inc.
	'687' is most similar to 'RHA 274'; however, '687' has shorter and wider seed than 'RHA 274' (7 mm L & 5 mm W vs 10 mm L & 4 mm W). '687' also has a shorter plant height at harvest than 'RHA 274' (85 cm vs 127 cm).			
WHEAT, COMMON				
8800122	Dynasty	(3)	04/28/89	The Ohio State University Ohio Agricultural Research and Development Center
	'Dynasty' most closely resembles 'Hart'; however, 'Dynasty' possesses superior resistance to leaf rust (4 vs 47% leaf area infected) and powdery mildew (15 vs 68% leaf area infected). 'Dynasty' is susceptible to Hessian fly biotypes A and C whereas 'Hart' is resistant.			

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
APRIL 1, 1989 TO JUNE 30, 1989

CERT. NO.	VARIETY	GEN.	ISSUE	NAME OF OWNER
		(*)	DATE	

WHEAT, DURUM

8800232 Imperial (*) 04/28/89 Western Plant Breeders, Inc. 'Imperial' most closely resembles 'WestBred 1000D', 'WestBred Turbo', and 'Yavaros 79'; however, 'Imperial' is 6 cm taller than 'WestBred 1000D' and has acuminate glume beaks, angular cheeks on the kernels, and a higher percentage (94 vs 64%) of hard vitreous kernels with amber color and brighter semolina color (1.2 vs 3.3 on a visual scale where 1 = bright yellow and 5 = dull, faint yellow) than 'WestBred 1000D'. 'WestBred 1000D' has acute glume beaks and rounded cheeks on the kernels. 'Imperial' has non-fading awns, non-twisted flag leaves and hairs on the last rachis internode whereas the awns of 'WestBred Turbo' fade and it has twisted flag leaves and no hairs on the last rachis internode. 'Imperial' is 1 to 8 days later flowering than 'Yavaros 79' and has a higher percentage (94 vs 69%) of hard amber vitreous kernels and brighter semolina color (1.2 vs 2.9) than 'Yavaros 79'.

(*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES AMENDED

APRIL 1, 1989 TO JUNE 30, 1989

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
ARTICHOKE				
8800071	Big Heart XR-1		10/31/88	Big Heart Seed
Name of owner changed from J. R. Jordan to Big Heart Seed.				
BEAN, GARDEN				
7400104	Lake Largo		09/30/74	Rogers Brothers Seed Company
Name of owner changed from Sunseeds Genetics, Inc. to Rogers Brothers Seed Company.				
8100175	Broker's Choice		04/28/83	Rogers Brothers Seed Company
Name of owner changed from Sunseeds Genetics, Inc. to Rogers Brothers Seed Company.				

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< > Identifies temporary designations.

CERTIFICATES AMENDED

APRIL 1, 1989 TO JUNE 30, 1989

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
FESCUE, TALL 8800132	Amigo		06/30/89	Pure-Seed Testing, Inc.

Variety with temporary designation of <5HF> named 'Amigo'.

PEA

8700022 Blizzard

06/30/87 Rogers Brothers Seed Company

Name of owner changed from Sunseeds Genetics, Inc. to Rogers Brothers Seed Company.

- (*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.
- < > Identifies temporary designations.

REQUEST FROM THE NATIONAL SEED STORAGE LABORATORY
FORT COLLINS, COLORADO

The National Seed Storage Laboratory encourages plant breeders to send a sample of cultivars being protected under PVPO to the NSSL to be placed in the Base collection at NSSL for long-term storage and in the Working collection at the appropriate Regional Plant Introduction Station.

When placed in the Base and Working collections of the National Plant Germplasm System, samples of these protected cultivars would be available to all bonafide scientists for research purposes only. The official PVP sample, which is stored at the NSSL, is a reference sample retained for use by the PVPO only and is not available for distribution.

Please consider this request to make your protected genetic materials available to the scientists of the world for research purposes.

STEVE A. EBERHART
Director

LOREN E. WIESNER
Curator

U.S.D.A., ARS
NATIONAL SEED STORAGE LABORATORY
Colorado State University Campus
Fort Collins, Colorado 80523
Telephone: 303/484-0402

Please label the sample by variety name, genus, and species and identify it as a separate sample contribution to the NSSL Base collection -- specify it is a PVP-protected variety. Requested seed numbers for NSSL are 7,500 seeds. NSSL Base collection samples should be sent to the NSSL at the above address; however, be sure that samples sent with PVP application are sent to the PVPO address.

DESCRIPTION OF PUBLIC VARIETIES

In accordance with section 180.800 of the Plant Variety Protection Act, descriptions of "public varieties" voluntarily submitted on PVP objective description forms will be accepted for publication in the PVP Official Journal. Publication of such descriptions in no way constitutes recognition of the variety as novel or entitles it to protection under the Plant Variety Protection Act.

The following are descriptions of public varieties of inbred corn lines developed by Dr. M. M. Goodman, Professor of Crop Science at North Carolina State University.

The "PV Number" assigned to each variety should not be construed as meaning the variety is protected under the PVP Act; it is merely the accession number of that variety in the Office's database of corn variety descriptions.

Requests for seed samples and further information about these seven cultivars should be directed to Dr. R. J. Kuhr, Director, North Carolina Agricultural Research Service, P. O. Box 7643, Raleigh, North Carolina 27695-7643.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC 262A'

PV Number: 8910001

'NC262A' was developed from TZ, a cross between McNair inbred lines 14 and 18, which was used as the female parent of 'McNair X300'. Both McNair inbred line 14 and 18 were developed by the late Alexander Fitzgerald from Coker 811A x C103⁴. 'NC262A' is a sister line of 'NC262' with greater resistance to ear diseases and higher yield potential in hybrid combinations and combines well with inbred lines of Iowa Stiff Stalk origin, such as 'A632', 'B73', and 'NC256'. 'NC262A' contributes better seed quality to the only available short, southern adapted C103-type line, 'NC262'. 'NC276' was released by North Carolina ARS in February 1989.

Breeder: Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Dry Ear Length	14 cm
Adapted Area	SE USA	Dry Ear Diameter	41 mm
Chromosome No.	Diploid	Dry Ear Weight	85 g
Days to Mid Silk	72	No. Kernel Rows/Ear	16
Heat Units to Mid Silk	1500	Row Distinctness	Distinct
Plant Height	156 cm	Row Straightness	Straight
Ear Height	36 cm	Exposed Silk Color	Green
Internode Lgth	11 cm	Fresh Husk Color	Light green
Tillers/Plant	None	Dry Husk Color	Buff
Ears/Plant	Strong 2-ear	Husk Extension	
Cytoplasm Type	Normal	Beyond Ear	Barely
Leaf Color	Dark green	Husk Leaf Length	< 8 cm
Leaf Angle	30 - 60 degree	Ear Shank Length	4 cm
Leaf Sheath		No Shank	
Pubescence	Light	Internodes	4
Leaf Marginal		Dry Ear Position	Upright
Waves	Few	Ear Taper	Slight
Leaf Creases	Few	Ear Drying Time	Slow
Leaf Width	10	Dry Kernel Length	10 mm
Leaf Length	69	Dry Kernel Width	8 mm
Lf. No./Plant	12	Dry Kernel Thickness	5 mm
Tassel Branch		Kernel Shape Grade	<20% Rounds
No./Plant	3	Pericarp Color	Colorless
Tassel Branch		Aleurone Color	White
Angle	< 30 degree	Endosperm Color	Pale yellow
Peduncle Lgth	22 cm	Endosperm Type	Normal starch
Pollen Shed	Light	Seed Weight	26 g/100
Anther Color	Yellow	Cob Mid Point Dia.	27 mm
Glume Color	Green	Cob Strength	Strong
		Cob Color	Red

Plant Diseases: Resistant to Southern Leaf Blight (caused by Bipolaris maydis), Anthracnose (caused by Colletotrichum graminicola), Gray Leaf Spot (caused by Cercospora zeae-maydis), and Common Smut.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC280'

PV Number: 8910002

'NC280', a sister line of 'NC252', was derived from 161-1(83), an S5 subline of 'BB11' derived from B73 x Pa91 by selfing using the ear-to-row method. It was yield-tested for 3 years (1985-1987) at 3 locations in North Carolina using 4 inbred lines ('Mol7', 'NC258', 'NC262', and 'Oh43E') as testers. 'NC280' provides high yield potential, good lodging resistance, and good seed quality in a 'B73' background that is well adapted to the upper south. It can serve well as male or female parent of single-cross hybrids. 'NC280' was released by the North Carolina ARS in February 1989.

Breeder: Dr. M. M. Goodman, (NCSU Professor, Crop Science)

Kernel Type	Dent	Dry Ear Diameter	43 mm
Adapted Area	SE USA	Dry Ear Weight	97 g
Chromosome No.	Diploid	No. Kernel Rows/Ear	18
Days to Mid Silk	76	Row Distinctness	Distinct
Heat Units to Mid Silk	1625	Row Straightness	Slightly curved
Plant Height	188 cm	Exposed Silk Color	Green
Ear Height	57 cm	Fresh Husk Color	Light green
Internode Length	13 cm	Dry Husk Color	Buff
Tillers/Plant	None	Husk Extension	
Ears/Plant	Slight 2-ear	Beyond Ear	Barley
Cytoplasm Type	Normal	Husk Leaf Length	< 8 cm
Leaf Color	Dark green	Ear Shank Length	8 cm
Leaf Angle	<30 degrees	No Shank	
Leaf Sheath		Internodes	5
Pubescence	Medium	Dry Ear Position	Upright
Leaf Marginal		Ear Taper	Average
Waves	Few	Ear Drying Time	Average
Leaf Creases	Absent	Dry Kernel Length	9 mm
Leaf Width	9	Dry Kernel Width	7 mm
Leaf Length	69	Dry Kernel Thickness	5 mm
Lf. No./Plant	11	Kernel Shape Grade	20-40% Rounds
Tassel Branch		Pericarp Color	Colorless
No./Plant	8	Aleurone Color	White
Tassel Branch		Endosperm Color	Yellow
Angle	<30 degrees	Endosperm Type	Normal
Peduncle Length	26 cm		starch
Pollen Shed	Medium	Seed Weight	24 g/100
Anther Color	Yellow	Cob Mid Point Dia.	27 mm
Glume Color	Green	Cob Strength	Strong
Dry Ear Length	15 cm	Cob Color	Pink

Plant Diseases: Resistant to Common Smut, and susceptible to Gray Leaf Spot (caused by Cercospora zeae-maydis).

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC282'

PV Number: 8910003

'NC282' was derived from lll-1(83), an S₅ line from B73³ x Pa91. It was yield-tested (as BB12) for 3 years (1985-1987) at 3 locations in North Carolina using 4 inbred lines ('Mol7', 'NC258', 'NC262', and 'Oh43E') as testers. 'NC282' combined best with 'NC262' in the above tests. It has maturity, yield, and plant type similar to 'B73', but has higher seed quality. 'NC282' can serve well as male or female parent of single-cross hybrids. 'NC282' was released by the North Carolina ARS in February 1989.

Breeder: Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Dry Ear Diameter	40 mm
Adapted Area	SE USA	Dry Ear Weight	87 g
Chromosome No.	Diploid	No. Kernel Rows/Ear	16
Days to Mid Silk	73	Row Distinctness	Distinct
Heat Units to		Row Straightness	Straight
Mid Silk	1550	Exposed Silk Color	Green
Plant Height	201 cm	Fresh Husk Color	Light green
Ear Height	67 cm	Dry Husk Color	Buff
Internode Length	14 cm	Husk Extension	
Tillers/Plant	None	Beyond Ear	Barley
Ears/Plant	Slight 2-ear	Husk Leaf Length	< 8 cm
Cytoplasm Type	Normal	Ear Shank Length	4 cm
Leaf Color	Dark green	No Shank	
Leaf Angle	<30 degrees	Internodes	3
Leaf Sheath		Dry Ear Position	Upright
Pubescence	Medium	Ear Taper	Average
Leaf Marginal		Ear Drying Time	Average
Waves	Few	Dry Kernel Length	8 mm
Leaf Creases	Absent	Dry Kernel Width	8 mm
Leaf Width	11	Dry Kernel Thickness	5 mm
Leaf Length	72	Kernel Shape Grade	20-40% Rounds
Lf. No./Plant	11	Pericarp Color	Colorless
Tassel Branch		Aleurone Color	White
No./Plant	5	Endosperm Color	Yellow
Tassel Branch		Endosperm Type	Normal
Angle	<30 degrees		starch
Peduncle Length	26 cm	Seed Weight	24 g/100
Pollen Shed	Medium	Cob Mid Point Dia.	31 mm
Anther Color	Yellow	Cob Strength	Strong
Glume Color	Green	Cob Color	Pink
Dry Ear Length	15 cm		

Plant Diseases: Resistant to Common Smut, and susceptible to Gray Leaf Spot (caused by Cercospora zeae-maydis).

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC284'

PV Number: 8910004

'NC284' was derived from 125-1(83), an S₅ line from B73³ x Pa91. It was yield-tested (as BB21) for 3 years (1985-1987) at 3 locations in North Carolina using 4 inbred lines ('Mol7', 'NC258', 'NC262', and 'Oh43E') as testers. 'NC284' is a B73-type line with very good lodging resistance, prolificacy, and high yield potential. 'NC284' was released by the North Carolina AES in February 1989.

Breeder: Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Dry Ear Diameter	41 mm
Adapted Area	SE USA	Dry Ear Weight	83 g
Chromosome No.	Diploid	No. Kernel Rows/Ear	16
Days to Mid Silk	73	Row Distinctness	Distinct
Heat Units to		Row Straightness	Straight
Mid Silk	1550	Exposed Silk Color	Green
Plant Height	191 cm	Fresh Husk Color	Light green
Ear Height	82 cm	Dry Husk Color	Buff
Internode Lgth	12 cm	Husk Extension	
Tillers/Plant	None	Beyond Ear	Barley
Ears/Plant	Strong 2-ear	Husk Leaf Length	< 8 cm
Cytoplasm Type	Normal	Ear Shank Length	3 cm
Leaf Color	Dark green	No Shank	
Leaf Angle	<30 degrees	Internodes	3
Leaf Sheath		Dry Ear Position	Upright
Pubescence	Light	Ear Taper	Average
Leaf Marginal		Ear Drying Time	Average
Waves	Few	Dry Kernel Length	10 mm
Leaf Creases	Few	Dry Kernel Width	7 mm
Leaf Width	10	Dry Kernel Thickness	5 mm
Leaf Length	72	Kernel Shape Grade	20-40% Rounds
Lf. No./Plant	10	Pericarp Color	Colorless
Tassel Branch		Aleurone Color	White
No./Plant	10	Endosperm Color	Yellow
Tassel Branch		Endosperm Type	Normal
Angle	<30 degrees	starch	
Peduncle Lgth	20 cm	Seed Weight	20 g/100
Pollen Shed	Heavy	Cob Mid Point Dia.	26 mm
Anther Color	Yellow	Cob Strength	Strong
Glume Color	Green	Cob Color	Red
Dry Ear Length	14 cm		

Plant Diseases: Resistant to Common Smut, and susceptible to Gray Leaf Spot (caused by Cercospora zeae-maydis).

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC286'

PV Number: 8910005

'NC286' was derived from TZ² x [(NC248 x NC246) x C103]. Of the progenitors 'NC248' was largely (97%) derived from GT112. TZ, a cross between McNair inbred lines 14 and 18, was the female parent of 'McNair X300'. Both McNair lines were derived from Coker 811A x C103⁴. 'NC286' is a short, southern-adapted flint line with good disease resistance and excellent yield potential. It has good lodging resistance and early flowering. 'NC286' is short with low ear height and good lodging resistance and combines well with lines of Staff Stalk Synthetic origin such as 'B73' and 'NC256'. 'NC286' was released by the North Carolina ARS in February 1989.

Breeder: Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Flint	Dry Ear Diameter	37 mm
Adapted Area	SE USA	Dry Ear Weight	46 g
Chromosome No.	Diploid	No. Kernel Rows/Ear	14
Days to Mid Silk	71	Row Distinctness	Distinct
Heat Units to		Row Straightness	Slightly curved
Mid Silk	1475		
Plant Height	166 cm	Exposed Silk Color	Green
Ear Height	30 cm	Fresh Husk Color	Light green
Internode Lgth	12 cm	Dry Husk Color	Buff
Tillers/Plant	None	Husk Extension	
Ears/Plant	Slight 2-ear	Beyond Ear	8-10 cm
Cytoplasm Type	Normal		beyond ear
Leaf Color	Medium green	Husk Leaf Length	< 8 cm
Leaf Angle	30-60 degrees	Ear Shank Length	4 cm
		No Shank	
Leaf Sheath		Internodes	3
Pubescence	Light	Dry Ear Position	Upright
Leaf Marginal		Ear Taper	Slight
Waves	Few	Ear Drying Time	Slow
Leaf Creases	Few	Dry Kernel Length	8 mm
Leaf Width	10	Dry Kernel Width	7 mm
Leaf Length	67	Dry Kernel Thickness	7 mm
Lf. No./Plant	8	Kernel Shape Grade	40-60% Rounds
Tassel Branch		Pericarp Color	Colorless
No./Plant	4	Aleurone Color	White
Tassel Branch		Endosperm Color	Yellow
Angle	30-40 degrees	Endosperm Type	Normal starch
Peduncle Length	24 cm	Seed Weight	29 g/100
Pollen Shed	Medium	Cob Mid Point Dia.	22 mm
Anther Color	Yellow	Cob Strength	Strong
Glume Color	Green	Cob Color	Red
Dry Ear Length	14 cm		

Plant Diseases: Resistant to Southern Leaf Blight (caused by Bipolaris maydis), Gray Leaf Spot (caused by Cercospora zeae-maydis), and Common Smut.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC288'

PV Number: 8910006

'NC288' was derived from TZ x [(NC248 x NC246) x C103]. Of the progenitors 'NC248' was largely (97%) derived from GT112; 'NC246' was 63% GT112 and 25% T61 by pedigree. TZ, a cross between McNair inbred lines 14 and 18, was the female parent of 'McNair X300'. Both McNair lines were derived from Coker 811A x C103⁴. 'NC288' has excellent disease resistance in a productive flint with adaptation throughout the South. It is most similar to 'NC258', but has red, rather than white, cobs and tends to dry-down more rapidly than 'NC258'. 'NC288' combines well with lines of Stiff Stalk Synthetic origin such as 'B73' and 'NC256'. 'NC288' was released by the North Carolina ARS in February 1989.

Breeder: Dr. M. M. Goodman (NCSU Professor Crop Science)

Kernel Type	Flint	Dry Ear Weight	55 g
Adapted Area	SE USA	No. Kernel Rows/Ear	14
Chromosome No.	Diploid	Row Distinctness	Indistinct
Days to Mid Silk	76	Row Straightness	Slightly curved
Heat Units to Mid Silk	1625	Exposed Silk Color	Green
Plant Height	188 cm	Fresh Husk Color	Light green
Ear Height	57 cm	Dry Husk Color	Buff
Internode Length	14 cm	Husk Extension Beyond Ear	> 10 cm beyond ear
Tillers/Plant	None	Husk Leaf Length	< 8 cm
Ears/Plant	Slight 2-ear	Ear Shank Length	5 cm
Cytoplasm Type	Normal	No Shank	
Leaf Color	Medium green	Internodes	4
Leaf Angle	<30 degrees	Dry Ear Position	Upright
Leaf Sheath Pubescence	Light	Ear Taper	Average
Leaf Marginal Waves	Few	Ear Drying Time	Slow
Leaf Creases	Few	Dry Kernel Length	9 mm
Leaf Width	11	Dry Kernel Width	8 mm
Leaf Length	74	Dry Kernel Thickness	5 mm
Lf. No./Plant	11	Kernel Shape Grade	20-40% Rounds
Tassel Branch No./Plant	21	Pericarp Color	Colorless
Tassel Branch Angle	<30 degrees	Aleurone Color	White
Peduncle Length	20 cm	Endosperm Color	Yellow
Pollen Shed	Medium	Endosperm Type	Normal starch
Anther Color	Yellow	Seed Weight	25 g/100
Glume Color	Green	Cob Mid Point Dia.	22 mm
Dry Ear Length	13 cm	Cob Strength	Strong
Dry Ear Diameter	34 mm	Cob Color	Red

Plant Diseases: Resistant to Southern Leaf Blight (caused by Bipolaris maydis), Gray Leaf Spot (caused by Cercospora zeae-maydis), and Common Smut.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC290'

PV Number: 8910007

'NC262A' was developed from TZ, a cross between McNair inbred lines 14 and 18, which was used as the female parent of 'McNair X300'. Both McNair inbred line 14 and 18 were developed by the late Alexander Fitzgerald from Coker 811A x C103⁴. 'NC290' is a short, early, widely adapted C103-type line with good resistance to gray leaf spot and southern leaf blight. It has adequate seed and pollen productivity to function as either a male or female parent, unlike the only similar lines, 'NC262' and 'NC262A'. 'NC290' is short with relatively small-low ears and combines well with inbred lines of Iowa Stiff Stalk origin, such as 'A632', 'B73', and 'NC256'. 'NC290' was released by North Carolina ARS in February 1989.

Breeder: Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Dry Ear Length	14 cm
Adapted Area	SE USA	Dry Ear Diameter	38 mm
Chromosome No.	Diploid	Dry Ear Weight	66 g
Days to Mid Silk	67	No. Kernel Rows/Ear	14
Heat Units to Mid Silk	1400	Row Distinctness	Distinct
Plant Height	161 cm	Row Straightness	Straight
Ear Height	36 cm	Exposed Silk Color	Green
Internode Length	10 cm	Fresh Husk Color	Light green
Tillers/Plant	None	Dry Husk Color	Buff
Ears/Plant	Slight 2-ear	Husk Extension	
Cytoplasm Type	Normal	Beyond Ear	Barely
Leaf Color	Dark green	Husk Leaf Length	< 8 cm
Leaf Angle	30-60 degrees	Ear Shank Length	5 cm
Leaf Sheath Pubescence	Light	No Shank	
Leaf Marginal Waves	Few	Internodes	4
Leaf Creases	Few	Dry Ear Position	Upright
Leaf Width	10	Ear Taper	Average
Leaf Length	66	Ear Drying Time	Slow
Lf. No./Plant	11	Dry Kernel Length	9 mm
Tassel Branch No./Plant	5	Dry Kernel Width	9 mm
Tassel Branch Angle	< 30 degree	Dry Kernel Thickness	7 mm
Peduncle Length	21 cm	Kernel Shape Grade	20-40% Rounds
Pollen Shed	Light	Pericarp Color	Colorless
Anther Color	Red	Aleurone Color	White
Glume Color	Green	Endosperm Color	Yellow
		Endosperm Type	Normal starch
		Seed Weight	29 g/100
		Cob Mid Point Dia.	25 mm
		Cob Strength	Strong
		Cob Color	Red

Plant Diseases: Resistant to Southern Leaf Blight (caused by Bipolaris maydis), Anthracnose (caused by Colletotrichum graminis), Gray Leaf Spot (caused by Cercospora zeae-maydis), and Common Smut.

GENERAL INFORMATION

Dr. C. Rose Broome has joined the staff of the Plant Variety Protection Office as of June 5, 1989, as a Plant Variety Senior Examiner. Dr. Broome has her Ph.D. in Botany, and will be in charge of soybean, alfalfa, and lettuce as well as numerous other crops.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
PLANT VARIETY PROTECTION OFFICE
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